



SS32 THRU SS36

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 20 TO 60V CURRENT: 3.0A

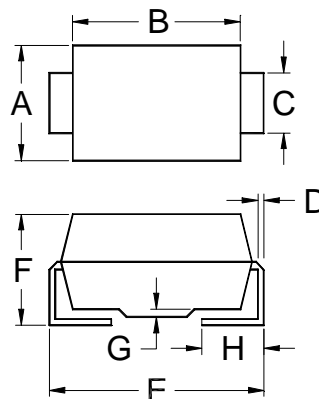
FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Low power loss, high efficiency
- High current capability, low V_F
- High surge capability
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode

SMB/DO-214AA



| | A | B | C | D |
|------|------------|------------|-------------|-------------|
| MAX. | .155(3.94) | .180(4.57) | .083(2.11) | .012(0.305) |
| MIN. | .130(3.30) | .160(4.06) | .077(1.96) | .006(0.152) |
| | E | F | G | H |
| MAX. | .220(5.59) | .096(2.44) | .008(0.203) | .060(1.52) |
| MIN. | .205(5.21) | .084(2.13) | .004(0.102) | .030(0.76) |

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

| RATINGS | SYMBOL | SS32 | SS33 | SS34 | SS35 | SS36 | UNITS |
|--|-----------------------------------|-------------|------|------|------|------|----------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 20 | 30 | 40 | 50 | 60 | V |
| Maximum RMS Voltage | V _{RMS} | 14 | 21 | 28 | 35 | 42 | V |
| Maximum DC Blocking Voltage | V _{DC} | 20 | 30 | 40 | 50 | 60 | V |
| Maximum Average Forward Rectified Current (T _L =100°C) | I _{F(AV)} | 3.0 | | | | | A |
| Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load) | I _{FSM} | 100 | | | | | A |
| Maximum Instantaneous Forward Voltage (at rated forward current) | V _F | 0.5 | | | 0.7 | | V |
| Maximum DC Reverse Current T _a =25°C (at rated DC blocking voltage) T _a =100°C | I _R | 0.5 20.0 | | | | | mA mA |
| Typical Junction Capacitance (Note 1) | C _J | 300 | | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θ(ja)} | 15 | | | | | °C/W |
| Storage and Operation Junction Temperature | T _{STG} , T _J | -65 to +150 | | | | | °C |

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0V_{dc}

2. Thermal resistance from junction to terminal mounted on 5x5mm copper pad area